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1 Mobile Ad Hoc Networks: Coping with communication gray zones in IEEE 802.11b based ad hoc networks

Henrik Lundgren, Erik Nordströ, Christian Tschudin

September 2002 **Proceedings of the 5th ACM international workshop on Wireless mobile multimedia**

**Publisher:** ACM Press

Full text available: pdf(126.37 KB) Additional Information: full citation, abstract, references, citings, index terms

Our experiments with IEEE 802.11b based wireless ad hoc networks show that neighbor sensing with broadcast messages introduces "communication gray zones": in such zones data messages cannot be exchanged although the HELLO messages indicate neighbor reachability. This leads to a systematic mismatch between the route state and the real world connectivity, resulting in disruptive behavior for multi-media data transfer over ad hoc routing protocols. Concentrating on AODV we explore this issue and ev ...

**Keywords**: IEEE 802.11b, MANET, communication gray zone, gray zone, mobile ad hoc networks, real-world experiment, routing protocols

2 Session C: New issues: MIPMANET: mobile IP for mobile ad hoc networks

Ulf Jönsson, Fredrik Alriksson, Tony Larsson, Per Johansson, Gerald Q. Maguire

November 2000 **Proceedings of the 1st ACM international symposium on Mobile ad hoc networking & computing**

**Publisher:** IEEE Press

Full text available: pdf(876.27 KB) Additional Information: full citation, abstract, references, citings

Mobile ad hoc networking allows nodes to form temporary networks and communicate beyond transmitter range by supporting multihop communication through IP routing. Routing in such networks is often reactive, i.e., performed on-demand, as opposed to Internet routing that is proactive. As ad hoc networks are formed on a temporary basis, any IP address should be allowed to appear in an ad hoc network.This paper presents MIPMANET, a solution for connecting an ad hoc network, in which on-demand routin ...

**Keywords**: AODV, Internet Access, MIPMANET, Mobile Ad Hoc Networks, Mobile IP

3 A new technique for website design using an interactive visualization hypertext tool

Jay M. Lightfoot
April 1997 **Proceedings of the 1997 ACM SIGCPR conference on Computer personnel research**
**Publisher:** ACM Press
Full text available: pdf(838.45 KB) Additional Information: full citation, references, index terms

4 Research track papers: A probabilistic framework for semi-supervised clustering
Sugato Basu, Mikhail Bilenko, Raymond J. Mooney
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
**Publisher:** ACM Press
Full text available: pdf(187.51 KB) Additional Information: full citation, abstract, references, index terms

Unsupervised clustering can be significantly improved using supervision in the form of pairwise constraints, i.e., pairs of instances labeled as belonging to same or different clusters. In recent years, a number of algorithms have been proposed for enhancing clustering quality by employing such supervision. Such methods use the constraints to either modify the objective function, or to learn the distance measure. We propose a probabilistic model for semi-supervised clustering based on Hidden Mar ...

**Keywords**: distance metric learning, hidden Markov random fields, semi-supervised clustering

5 Web technologies and applications (WTA): Editorial message: special track on web technologies and applications
Cristina Cachero, Sara Comai, Maristella Matera
March 2005 **Proceedings of the 2005 ACM symposium on Applied computing SAC '05**
**Publisher:** ACM Press
Full text available: pdf(31.97 KB) Additional Information: full citation, abstract

The special track on Web Technologies and Applications is already at its fourth edition and has seen a constant evolution in the research issues. Currently, Web applications are required to rely on open, flexible, adaptable, and distributed infrastructure and to be ubiquitous, highly scalable, reliable, accessible from different devices, and personalized with respect to various user requirements. Web applications are becoming increasingly complex thereby creating a need for appropriate theoretic ...

6 GPRSWeb: optimizing the web for GPRS links
Rajiv Chakravorty, Andrew Clark, Ian Pratt
May 2003 **Proceedings of the 1st international conference on Mobile systems, applications and services MobiSys '03**
**Publisher:** ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references

The General Packet Radio Service (GPRS) is being deployed by GSM network operators world-wide, and promises to offer users "always-on" data access at bandwidths comparable to that of conventional fixed-line telephone modems. Unfortunately, many users have found the reality to be rather different, experiencing very disappointing performance when, for example, browsing the web over GPRS.In this paper we investigate what causes the HTTP protocol and its underlying transport TCP to underperform in a ...

7 Research track posters: Why collective inference improves relational classification
David Jensen, Jennifer Neville, Brian Gallagher

August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
**Publisher:** ACM Press
Full text available: pdf(496.13 KB) Additional Information: full citation, abstract, references, index terms

Procedures for *collective inference* make simultaneous statistical judgments about the same variables for a set of related data instances. For example, collective inference could be used to simultaneously classify a set of hyperlinked documents or infer the legitimacy of a set of related financial transactions. Several recent studies indicate that collective inference can significantly reduce classification error when compared with traditional inference techniques. We investigate the under ...

**Keywords**: collective inference, probabilistic relational models, relational learning

8 Links: Links and power: the political economy of linking on the Web
Jill Walker
June 2002 **Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**
**Publisher:** ACM Press
Full text available: pdf(112.86 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Search engines like Google interpret links to a web page as objective, peer-endorsed and machine-readable signs of value. Links have become the currency of the Web. With this economic value they also have power, affecting accessibility and knowledge on the Web.

**Keywords**: accessibility, blogdex, community, google, knowledge, links, politics, power, search engines, survival, theory, weblogs

9 Industry/government track posters: Exploring the community structure of newsgroups
Christian Borgs, Jennifer Chayes, Mohammad Mahdian, Amin Saberi
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
**Publisher:** ACM Press
Full text available: pdf(3.11 MB) Additional Information: full citation, abstract, references, index terms

We propose to use the community structure of Usenet for organizing and retrieving the information stored in newsgroups. In particular, we study the network formed by cross-posts, messages that are posted to two or more newsgroups simultaneously. We present what is, to our knowledge, by far the most detailed data that has been collected on Usenet cross-postings. We analyze this network to show that it is a small-world network with significant clustering. We also present a spectral algorithm which ...

**Keywords**: clustering, spectral method, usenet

10 Congestion: Mitigating congestion in wireless sensor networks
Bret Hull, Kyle Jamieson, Hari Balakrishnan
November 2004 **Proceedings of the 2nd international conference on Embedded networked sensor systems**
**Publisher:** ACM Press
Full text available: pdf(532.98 KB) Additional Information: full citation, abstract, references, index terms

Network congestion occurs when offered traffic load exceeds available capacity at any point in a network. In wireless sensor networks, congestion causes overall channel quality to degrade and loss rates to rise, leads to buffer drops and increased delays (as in wired

networks), and tends to be grossly unfair toward nodes whose data has to traverse a larger number of radio hops.

Congestion control in wired networks is usually done using end-to-end and network-layer mechanisms acting in ...

**Keywords**: congestion control, flow control, network performance, rate limiting, wireless sensor networks

**11** Web: Implicit link analysis for small web search

Gui-Rong Xue, Hua-Jun Zeng, Zheng Chen, Wei-Ying Ma, Hong-Jiang Zhang, Chao-Jun Lu
July 2003 **Proceedings of the 26th annual international ACM SIGIR conference on Research and development in informaion retrieval**
**Publisher:** ACM Press

Full text available: pdf(228.68 KB) Additional Information: full citation, abstract, references, citings, index terms

Current Web search engines generally impose link analysis-based re-ranking on web-page retrieval. However, the same techniques, when applied directly to small web search such as intranet and site search, cannot achieve the same performance because their link structures are different from the global Web. In this paper, we propose an approach to constructing implicit links by mining users' access patterns, and then apply a modified PageRank algorithm to re-rank web-pages for small web search. Our ...

**Keywords**: information retrieval, link analysis, log mining, web search

**12** Research track papers: A graph-theoretic approach to extract storylines from search results

Ravi Kumar, Uma Mahadevan, D. Sivakumar
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
**Publisher:** ACM Press
Full text available: pdf(161.61 KB) Additional Information: full citation, abstract, references, index terms

We present a graph-theoretic approach to discover storylines from search results. Storylines are windows that offer glimpses into interesting themes latent among the top search results for a query; they are different from, and complementary to, clusters obtained through traditional approaches. Our framework is axiomatically developed and combinatorial in nature, based on generalizations of the maximum induced matching problem on bipartite graphs. The core algorithmic task involved is to mine for ...

**Keywords**: clustering, communities, link analysis, search results, storylines

**13** Pointing: ViewPointer: lightweight calibration-free eye tracking for ubiquitous handsfree deixis

John D. Smith, Roel Vertegaal, Changuk Sohn
October 2005 **Proceedings of the 18th annual ACM symposium on User interface software and technology UIST '05**
**Publisher:** ACM Press
Full text available: pdf(1.55 MB) Additional Information: full citation, abstract, references, index terms

We introduce ViewPointer, a wearable eye contact sensor that detects deixis towards ubiquitous computers embedded in real world objects. ViewPointer consists of a small wearable camera no more obtrusive than a common Bluetooth headset. ViewPointer

allows any real-world object to be augmented with eye contact sensing capabilities, simply by embedding a small infrared (IR) tag. The headset camera detects when a user is looking at an infrared tag by determining whether the reflection of the tag on ...

**Keywords**: attentive user interface, eye tracking

**14** Special feature on the first AODV next generation workshop: The gray zone problem in IEEE 802.11b based ad hoc networks

Henrik Lundgren, Erik Nordstrom, Christian Tschudin

June 2002 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 6 Issue 3

**Publisher:** ACM Press

Full text available: pdf(30.10 KB) Additional Information: full citation, abstract, references, index terms

Our experiments with IEEE 802.11b based wireless ad hoc networks show that neighbor sensing with broadcast messages introduces "communication gray zones": in such zones data messages cannot be exchanged although the *HELLO* messages indicate neighbor reachability. This leads to a systematic mismatch between the route state and the real world connectivity, resulting in disruptive behavior. Concentrating on AODV we explore this issue and present three different techniques to overcome the gray ...

**15** Monitoring and measurements: Implementation and performance measurements of a delay-bounded HPD algorithm in an ALTQ-based router

Johanna Nieminen, Marko Luoma, Antti Paju

October 2005 **Proceedings of the 2005 ACM conference on Emerging network experiment and technology CoNEXT'05**

**Publisher:** ACM Press

Full text available: pdf(502.61 KB) Additional Information: full citation, abstract, references, index terms

In this paper we show the first working implementation of an adaptive, measurement-based scheduling algorithm called delay-bounded hybrid proportional delay (DBHPD) in a FreeBSD based ALTQ prototype router. We describe how we have implemented DBHPD and discuss what kind of difficulties were encountered in the implementation. We present measurement results of the DBHPD implementation with FTP, HTTP, Video Streaming and VoIP traffic in underload, overload and heavy overload conditions. We show tha ...

**Keywords**: adaptive scheduling, implementation, measurements

**16** Projectors: advanced graphics and vision techniques

Ramesh Raskar

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

**Publisher:** ACM Press

Full text available: pdf(6.53 MB) Additional Information: full citation

**17** WebCQ-detecting and delivering information changes on the web

Ling Liu, Calton Pu, Wei Tang

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

**Publisher:** ACM Press

Full text available: pdf(835.31 KB) Additional Information: full citation, references, citings, index terms

18 Web of communities: An outsider's view on "topic-oriented blogging"

J. Bar-Ilan

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

**Publisher:** ACM Press

Full text available: pdf(247.84 KB) Additional Information: full citation, abstract, references, index terms

The number of Web blogs is growing extremely fast, thus this phenomenon cannot be ignored. This paper discusses the issue through monitoring a set of blogs for a two months period in September-October 2003 and characterizing these blogs based on descriptive statistics and content analysis.

**Keywords**: bloggers, blogs

19 Adaptive performance prediction for distributed data-intensive applications

Marcio Faerman, Alan Su, Richard Wolski, Francine Berman

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

**Publisher:** ACM Press

Full text available: pdf(292.25 KB) Additional Information: full citation, references, citings, index terms

20 Migration: Optimizing the migration of virtual computers

Constantine P. Sapuntzakis, Ramesh Chandra, Ben Pfaff, Jim Chow, Monica S. Lam, Mendel Rosenblum

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SI

**Publisher:** ACM Press

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings

This paper shows how to quickly move the state of a running computer across a network, including the state in its disks, memory, CPU registers, and I/O devices. We call this state a *capsule*. Capsule state is hardware state, so it includes the entire operating system as well as applications and running processes.We have chosen to move *x*86 computer states because *x*86 computers are common, cheap, run the software we use, and have tools for migration. Unfortunately, *x*86 c ...

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